## **PCT**

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference p02002			FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
International application No. PCT/NO03/00011			International filing date 15.01.2003	(day/mont	h/year)	Priority date (day/mont)	lh/year)	
Interna E21B	ational Pa 333/064	tent Classification (IPC) or be	oth national classification	and IPC				
Applica NORS		DRO ASA et al.				·		
1. 7	This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2. 1	2. This REPORT consists of a total of 4 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
Т	These annexes consist of a total of sheets.							
3. T	his repo	rt contains indications rela	ating to the following its	ems:				
1	$\boxtimes$	Basis of the opinion						
11		Priority						
11	ı 🗆	Non-establishment of o	pinion with regard to no	oveltv. inv	entive sten a	nd industrial applicability	<b>.</b>	
۱۱	/ 🗆	Lack of unity of inventio			omire step a	nd industrial applicabilit	ıy	
V		Reasoned statement un citations and explanatio	ns supporting such sta	th regard : tement	o novelty, in	ventive step or industria	l applicability;	
V		Certain documents cited						
V	. –	Certain defects in the in	* *					
		Certain observations on	the international applic	cation				
Date of submission of the demand				Date of co	mpletion of thi	s report		
	03.07.2003				003			
Name and mailing address of the international preliminary examining authority:				Authorized	Officer		(ACOES No.	
European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465				Manolac Telephone	he, I No. +49 89 23	399-2065		

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NO03/00011

<ol> <li>Basis of the</li> </ol>	e report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	De	escription, Pages									
	1-8	3	as originally filed								
	CI	Claims, Numbers									
	1-5	5	as originally filed								
	Dr	Drawings, Sheets									
	1/6	-6/6	as originally filed								
2.		gaage in miller life ii	uage, all the elements marked above were available or furnished to this Authority in the nternational application was filed, unless otherwise indicated under this item.								
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:								
	the language of a translation furnished for the purposes of the international search (under Rule 23.										
		the language of pul	blication of the international application (under Rule 48.3(b)).								
		the language of a ti Rule 55.2 and/or 55	ranslation furnished for the purposes of international preliminary examination (under 5.3).								
3.	Wit inte	h regard to any <b>nucl</b> rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:								
		contained in the inte	ernational application in written form.								
	☐ filed together with the international application in computer readable form.										
			ently to this Authority in written form.								
	furnished subsequently to this Authority in computer readable form.										
[		The statement that in the international a	the subsequently furnished written sequence listing does not go beyond the disclosure application as filed has been furnished.								
		The statement that the listing has been furn	the information recorded in computer readable form is identical to the written sequence iished.								
ŧ.	The	amendments have r	resulted in the cancellation of:								
		the description,	pages:								
		the claims,	Nos.:								
-		the drawings,	sheets:								

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5. □	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	· ··

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1-5

1. Statement

Novelty (N) Yes: Claims

No: Claims

Inventive step (IS) Yes: Claims 1-5

No: Claims

Industrial applicability (IA) Yes: Claims 1-5

No: Claims

2. Citations and explanations

see separate sheet

# INTERNATIONAL PRELIMINARY International application No. PCT/NO03/00011 EXAMINATION REPORT - SEPARATE SHEET

#### V - Reasoned statement under Art. 35 (2).

- V1 Due to linguistic deficiencies the wording of claim 1 is not clear and the claim does not meet the requirements of Art. 6 PCT. Under the same article are to be considered some of the remaining dependant claims, as well as part of the disclosure.
- As far as claim 1 can be understood, the wording of said claim has been interpreted as follows:

  "Riser control device, particularly designed to be used in connection with spools or horizontal production trees (12) used in oil and gas installations in subsea locations, characterised in that within a housing (1, 2) are provided a pair of rams (6) radially movable in opposed direction for isolating the well and a pair of shear blades (7) radially movable in opposed direction for cutting off an intervention string or the like, the rams (6) and the blades (7) being simultaneously driven by means of a vertical actuator (8, 9, 23) contained within the housing (1, 2)."
- V3 Interpreting the claim with respect to Point V2, following are pointed out:
  Document D1: US-A-1 839 394 discloses a device able to isolate the annular between a working string and a surrounding housing by the means of hydraulically actuated rams. It could be therefore considered that these features are to be identified in claim 1 as the sealing means
  Document D2: US-A 6 244 336 discloses a double shearing rams system designed for use in a standard ram-type blowout preventer. The features of this device could be identified as the corresponding features of claim 1 able to clear out the well by shearing the string contained in the annular, preceding the operation of sealing.
- V4 As the purpose of the invention is to isolate the entire well at the level of a subseea location, regardless if a working string is present or not, the combination of the features of D1 and D2, even ignoring the different way in which each of the system is actuated, still can not suggest the features shear blades and rams, simultaneously driven by the means of an vertical actuator.
  It requires therefore inventive consideration to arrive at the claimed solution.
  Consequently, the subject-matter of claim 1 is new and inventive as set out in Art.33 (2) and (3) PCT.